

# PIN Power Inductor RPT109



*Under Development*



Halogen Free



### Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 10.5 × 10.5 × 10.0 mm Max.
- Product weight: 3.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

### Environmental Data

- Operating temperature range: -40°C ~ +105°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C

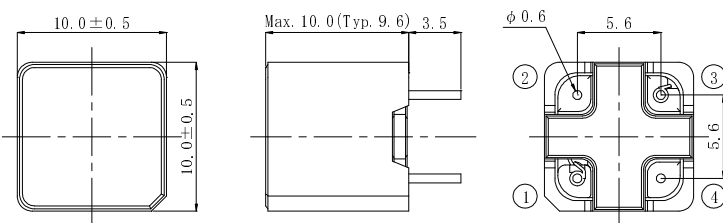
### Packaging

- Box packaging.

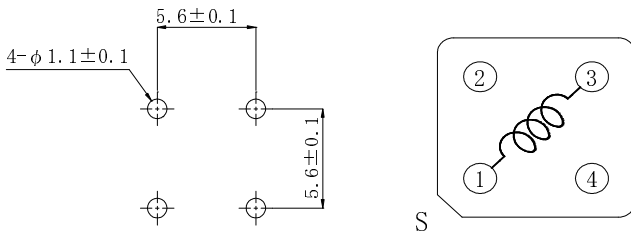
### Applications

- Ideally used in lamp bulb, fluorescent lamp of LED, etc .

### Dimension - inch [mm]



### Land pattern and Schematics - inch [mm]



### Electrical Characteristics

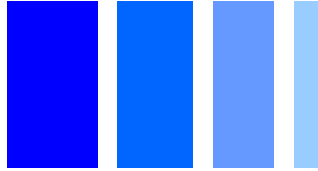
Part No.	Inductance ( $\mu$ H) ※1	D.C.R. ( $\Omega$ ) at 20°C	Saturation Current (mA) ※2		Temperature Rise Current (mA) ※3
			(at 20°C)	(at 105°C)	
RPT109NP-561MC	560 ± 20%	2.1 ± 25%	560	450	360
RPT109NP-102MC	1000 ± 20%	3.7 ± 25%	420	350	270
RPT109NP-152MC	1500 ± 20%	6.1 ± 25%	340	280	210
RPT109NP-202MC	2000 ± 20%	10.0 ± 25%	300	245	160

※1 Measuring condition: at 100kHz.

※2 Saturation current: The DC current at which the inductance decreases to 70% of it's nominal value.

※3 Temperature rise current: The DC current at which the temperature rise is  $\Delta T = 40^\circ\text{C}$ . ( $T_a = 20^\circ\text{C}$ )

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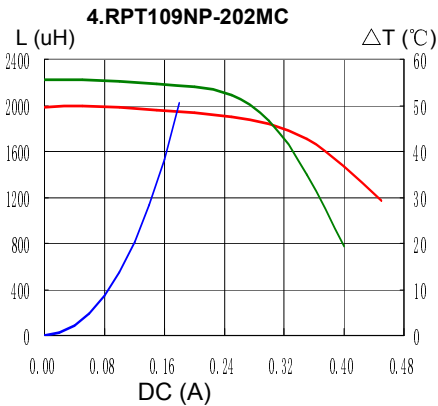
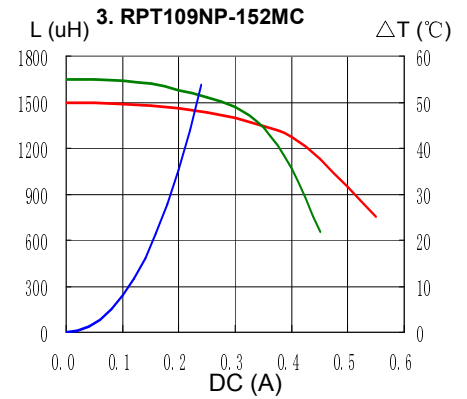
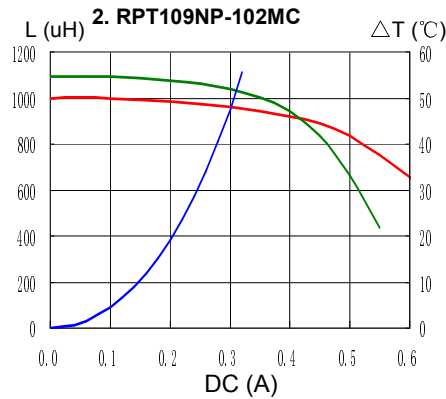
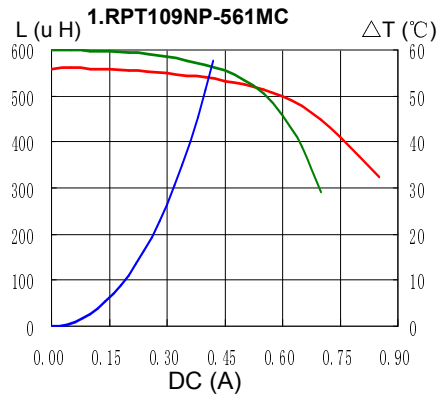


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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



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